

CLAIMS:

What is claimed is:

- 5 1. A transcoder processing system implemented method
for converting documents based on semantic
characteristics, comprising:
 receiving a request for a document from a
client;
10 passing the request to an origin server;
 receiving the requested document from the
origin server;
 performing a syntactical transcoding on the
requested document, wherein at least one semantic
characteristic of the requested document is
15 converted; and
 sending the requested document to the client.
- 20 2. The transcoder processing system implemented method
recited in claim 1 further comprises receiving at least
one semantic characteristic preference from the client,
wherein the at least one semantic characteristic is
automatically converted based on the at least one
semantic characteristic preference.
- 25 3. The transcoder processing system implemented method
recited in claim 2, wherein a semantic characteristic
preference specified by the client is readability level
of the requested document.

4. The transcoder processing system implemented method recited in claim 3, wherein the at least one semantic characteristics is the readability level of the requested document.

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5. The transcoder processing system implemented method recited in claim 2, wherein a semantic characteristic preference specified by the client is locale.

10 6. The transcoder processing system implemented method recited in claim 5, wherein the at least one semantic characteristic is the locale characteristic of the requested document.

15 7. The transcoder processing system implemented method recited in claim 2, wherein a semantic characteristic preference specified by the client is conformance with specified governmental regulations by the requested document.

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8. The transcoder processing system implemented method recited in claim 7, wherein the at least one semantic characteristic is the conformance with specified governmental regulations of the requested document.

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9. The transcoder processing system implemented method recited in claim 2, wherein a semantic characteristic preference specified by the client is conformance with specified content filtering in the requested document.

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10. The transcoder processing system implemented method recited in claim 9, wherein the at least one semantic

characteristic is the conformance with specified content filtering of the requested document.

11. The transcoder processing system implemented method
5 recited in claim 2, wherein a semantic characteristic preference specified by the client is the natural language of the requested document.

10 12. The transcoder processing system implemented method recited in claim 11, wherein the at least one semantic characteristic is the natural language of the requested document.

15 13. The transcoder processing system implemented method recited in claim 2 further comprises comparing the at least one semantic characteristic preference received from the client with semantic conversion features supported by the transcoder processing system.

20 14. The transcoder processing system implemented method recited in claim 13, wherein the step of passing the request to a server further comprises passing the request to a transcoding server on the basis of the comparison.

25 15. A transcoder processing system implemented method for converting documents based on semantic characteristics, comprising:

receiving at least one semantic characteristic preference from a client;

30 syntactically transcoding a document; and
converting at least one of the semantic characteristics of the document, wherein converting

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is based on the at least one semantic characteristic preference.

16. The transcoder processing system implemented method
5 recited in claim 15, wherein the at least one semantic characteristic preference is one of readability level, locale, content filtering, compliance with governmental regulations, and natural language.

10 17. The transcoder processing system implemented method recited in claim 15, further comprising:

transcoding the document using one of a protocol transcoder and a device transcoder.

15 18. A transcoder processing system implemented method for converting documents based on semantic characteristics, comprising:

requesting a document from an origin server from a client;

20 transmitting at least one semantic characteristic preference from a client, wherein the at least one semantic characteristic preference is one of readability level, locale, content filtering, compliance with governmental regulations, and natural language; and

receiving the document, wherein the document has been syntactically transcoded and converted using the at least one semantic characteristic preference.

30 19. A transcoder processing system for converting documents based on semantic characteristics, comprising:

receiving means for receiving a request for a document from a client;

passing means for passing the request to an origin server;

5 receiving means for receiving the requested document from the origin server;

performing means for performing a syntactical transcoding on the requested document, wherein at least one semantic characteristic of the requested

10 document is converted; and

sending means for sending the converted document to the requesting client.

20. The transcoder processing system recited in claim 19
15 further comprises receiving means for receiving at least one semantic characteristic preference from the client.

21. The transcoder processing system recited in claim 19, wherein a semantic characteristic preference specified by the client is readability level of the requested document.

22. The transcoder processing system recited in claim 21, wherein the at least one semantic characteristic is 25 the readability level of the requested document.

23. The transcoder processing system recited in claim 19, wherein a semantic characteristic preference specified by the client is locale.

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24. The transcoder processing system recited in claim 23, wherein the at least one semantic characteristic is the locale characteristic of the requested document.
- 5 25. The transcoder processing system recited in claim 19, wherein a semantic characteristic preference specified by the client is conformance with specified governmental regulations by the requested document.
- 10 26. The transcoder processing system recited in claim 25, wherein the at least one semantic characteristic is the conformance with specified governmental regulations of the requested document.
- 15 27. The transcoder processing system recited in claim 19, wherein a semantic characteristic preference specified by the client is conformance with specified content filtering in the requested document.
- 20 28. The transcoder processing system recited in claim 27, wherein the at least one semantic characteristic is the conformance with specified content filtering of the requested document.
- 25 29. The transcoder processing system recited in claim 28, wherein a semantic characteristic preference specified by the client is the natural language of the requested document.
- 30 30. The transcoder processing system recited in claim 29, wherein the at least one semantic characteristic is the natural language of the requested document.

31. The transcoder processing system recited in claim 19 further comprises comparing means for comparing the at least one semantic characteristic preference received from the client with semantic conversion features supported by the transcoder processing system.
32. The transcoder processing system recited in claim 31, wherein the passing means for passing the request to a server further comprises passing means for passing the request to a transcoding server on the basis of the comparison.
33. A transcoder processing system for converting documents based on semantic characteristics, comprising:
receiving means for receiving at least one semantic characteristic preference from a client;
syntactical means for syntactically transcoding a document; and
converting means for converting at least one of the semantic characteristics of the document, wherein converting is based on the at least one semantic characteristic preference.
34. The transcoder processing system recited in claim 33, wherein the at least one semantic characteristic preference is one of readability level, locale, content filtering, compliance with governmental regulations, and natural language.
35. The transcoder processing system recited in claim 33, further comprising:

transcoding means for transcoding the document using one of a protocol transcoder and a device transcoder.

- 5 36. A transcoder processing system for converting documents based on semantic characteristics, comprising:
- requesting means for requesting a document from an origin server from a client;
- transmitting means for transmitting at least one semantic characteristic preference from a client, wherein the at least one semantic characteristic preference is one of readability level, locale, content filtering, compliance with governmental regulations, and natural language; and
- receiving means for receiving the document, wherein the document has been syntactically transcoded and converted using the at least one semantic characteristic preference.
- 20 37. A transcoder processing computer program product for converting documents based on semantic characteristics, comprising:
- receiving instructions for receiving a request for a document from a client;
- passing instructions for passing the request to an origin server;
- receiving instructions for receiving the requested document from the origin server;
- performing instructions for performing a syntactical transcoding on the requested document, wherein at least one semantic characteristic of the requested document is converted; and

sending instructions for sending the converted document to the requesting client.

38. A transcoder processing computer program product for
5 converting documents based on semantic characteristics,
comprising:

requesting instructions for requesting a document from an origin server from a client;

transmitting instructions for transmitting at least one semantic characteristic preference from a client, wherein the at least one semantic characteristic preference is one of readability level, locale, content filtering, compliance with governmental regulations, and natural language; and

receiving instructions for receiving the document, wherein the document has been syntactically transcoded and converted using the at least one semantic characteristic preferences.